



Dräger Interlock™ 7000
Instructions for Use
Version 1.2

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1 For your Safety

1.1 General safety statements

- For correct and effective use of the described instrument it is essential to read and strictly follow the instructions contained in this document.
- The instrument is only to be used for the purposes specified herein.

1.1.1 Maintenance

Repairs of the described instrument may only be performed by Draeger Safety Diagnostics, Inc., or an authorized service technician, and only Dräger spare parts may be used. Otherwise the proper functioning of the device may be impaired.

1.1.2 Note

In this document the Dräger Interlock 7000 is also referred to as the "Interlock" or "Interlock 7000".

1.2 Definition of alert icons

The following alert icons are used in this document to provide and highlight areas of the associated text that require a greater awareness by the user. A definition of the meaning of each icon is as follows:



WARNING

Includes a potentially hazardous situation. If this is not avoided, death or serious injury may result.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, could result in physical injury or damage to the product or environment. It may also be used to describe unsafe practices to be avoided.



NOTICE

Indicates additional information regarding the device.

2 Copyright and Legal disclaimer

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2.1 Disclaimer

Draeger Safety Diagnostics, Inc. accepts no responsibility for technical inaccuracies and reserves the right to make periodic changes, enhancements, revisions, and alterations to the programs and/or its manuals without obligation to notify any person, institution, or organization of such changes, enhancements, revisions and alterations.

2.2 License Agreement

The Firmware/Software within the instrument is the property of Draeger Safety Diagnostics, Inc. and is protected by US Copyright Law, Trademark Law, and International Treaty Provisions. No ownership or title to the Firmware/Software is transferred to the User. Draeger Safety Diagnostics, Inc. does not grant any express or implied right to the User under Draeger Safety Diagnostics, Inc.'s patents, copyrights, trademarks, or trade secret information, except as set forth immediately below. Draeger Safety Diagnostics, Inc. grants the User a non-exclusive license to use the Firmware/Software as part of Owner's use of the Hardware and under the following terms and conditions:

(1) User shall not remove or obscure Draeger Safety Diagnostics Inc.'s copyright, trademark, or proprietary notice from the Hardware and any documentation associated with the Hardware.

(2) User shall not copy, sell, transfer, loan, rent, lease, modify, extend, improve, or create derivative works or alter the Firmware/Software in any way, nor shall User allow any other entity to do so without the express written consent of Draeger Safety Diagnostics, Inc.

(3) User shall take appropriate steps to prevent any unauthorized copying of the Firmware/Software.

(4) User shall not take any actions inconsistent with Draeger Safety Diagnostics, Inc.'s ownership of the Firmware/Software.

(5) User shall not reverse engineer, decompile, or disassemble the Firmware/Software or otherwise attempt to derive source code from the Firmware/Software, nor shall User allow any other entity to do so. The foregoing license is nontransferable, except in conjunction with a permanent transfer of the Hardware to another entity and providing such other entity expressly acknowledges and agrees to the terms and conditions of this license.

2.3 Compliance

This device complies with part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

3 Overview

3.1 Purpose

The Dräger Interlock 7000 allows you to start your vehicle once you provide a breath sample below the set breath alcohol limit for your instrument. If the alcohol content of your breath exceeds the allowed limits your car will not start.

3.2 Service

The Interlock will warn you in advance when your next service deadline is approaching. If you do not have your device serviced as scheduled the unit will lock out and you will be unable to start your vehicle.

3.3 Violations

A violation is an event recorded in the Interlock device when it is not used correctly, a test is ignored, the device is disconnected, or an attempt is made to circumvent a test or tamper with the device. Violations are recorded and reported to your monitoring agency.

4 Do's and Don'ts of Interlock Use

4.1 Do's

DO keep the unit clean and dry at all times.

DO use a clean, dry mouthpiece when providing breath tests.

DO contact your Service Provider with any questions or concerns.



CAUTION

Leave the tamper-evident label in place. Any attempt to remove the label is a violation.

4.2 Don'ts

DO NOT use or consume any product other than water within 15 minutes of using the device.

DO NOT place the handset on the vehicle's floor while driving. If the device is not secured it may interfere with the pedals and the safe operation of the vehicle.

DO NOT use the handset while driving if you are at all unsure about your safety. If you are asked for a breath test while driving Dräger recommends that you pull over before taking the breath test.

DO NOT attempt to disable the handset or fail to provide a random retest. This may shorten the service interval or alert your monitoring agency and these actions are recorded in memory.

DO NOT tamper with, abuse, misuse, and/or neglect the Interlock device. Tampering with the device may be a violation of the law and result in fines and/or incarceration.



CAUTION

To ensure a valid breath test you must abstain from eating, drinking any fluids (except water), or smoking for at least 15 minutes prior to providing an initial breath test. As the Interlock may require a random retest while you are driving you should not eat, drink (except water), or smoke while driving your vehicle.



WARNING

Altering or tampering with the device may cause it to function improperly and invalidates the installation.

5 Breath Test at Vehicle Start

5.1 Preparation

Do not use or consume any product other than water within 15 minutes of using the device.

5.2 Turning on the System

To turn the system on:

1. Insert a clean, dry mouthpiece into the Interlock device.
2. Insert the key into the ignition switch.
3. Turn key to the on position (usually two clicks).
4. The Interlock will show "Warming Up" on the display screen and there will be a steady blue light on the device.
5. When the Interlock is ready for the breath sample it will display "Ready for Test - Please Blow" on the screen and the blue light will flash repeatedly.
6. Take a few normal, even breaths.
7. Take a deep breath and put your lips around the mouthpiece.
8. Provide a steady blow into the mouthpiece by exhaling normally. As you blow into the Interlock a tone will sound and the light will turn off. This means you are blowing correctly. Do not stop.
9. When the tone stops and the blue light turns back on immediately give a sharp suck back until you hear a beep.

5.3 Test Results

The Interlock will display "Test Passed" or "Test Failed" if the breath sample was given correctly.

Test Passed: If the breath sample is below the set-point the message "Test Passed" will appear and a green light will come on. A countdown will start on the interlock showing how much time you have to start the vehicle. Turn the key to start your vehicle.

Test Failed: If the breath sample is above the set-point the message "Test Failed" will appear and a red light will come on. The vehicle will not start.



NOTICE

Note that when you turn off your vehicle the Interlock will begin a countdown. Within that time period you can restart the vehicle without needing to give another breath test.

5.4 Failing the Breath Test

If you fail the breath test:

- The vehicle will not start.
- The device may go into temporary lockout.
- If the alcohol content of your breath is very high the temporary lockout may be longer.
- The display will show you how much time remains in the "Temporary Lockout" period.

5.5 Breath Test Messages

If you hear beeping or see a red light flash during a test, stop and look at the display. The displayed message will tell you what went wrong and you can retake the test.

Blow Longer! Repeat Test:

- Means you did not blow long enough.
- Press the OK button and the Interlock will prepare to test again.
- Take the test again and blow until the tone stops.

Blow Stronger! Repeat Test:

- Means you did not blow hard enough.
- Press the OK button and the Interlock will prepare to test again.
- Take the test again and blow a little harder.

Suck after Blow:

- Means that you did not do the suck back correctly.
- Press the OK button and the Interlock will prepare to test again.
- Take the test again and perform a sharp suck-back when the tone stops. Suck until a beep sounds.

Interferent Detected:

- Press the OK button and a countdown will begin.
- Once the countdown is complete take the test again.

6 Random Retest

6.1 What is a Random Retest?

To make sure the user stays sober while driving the Interlock requires you to take additional tests while you drive. You must give additional breath tests at random intervals - perhaps several times before you turn off your vehicle.

- When the Interlock prompts for Retest you will hear a beep and the blue light will flash.
- The Interlock display will read "Retest required - PLEASE BLOW".
- You will have several minutes to give the test.
- Do not turn off the vehicle to avoid the retest. This will be recorded as a violation.

The breath sample is given in the same way as the original test.

6.2 Questions about Random Retests

What happens if I do not hear the retest prompt?

The Interlock 7000 will start beeping an audible tone continuously to alert you. Stop the tone by pushing the OK button and taking the test.

What happens if I do not take the retest in time?

The message "Retest Violation" appears on the display, the tone will beep continuously, and the vehicle's horn may honk and/or the parking lights may flash. You must turn off the vehicle to deactivate the horn and lights. The vehicle will not shut down while you are driving.

What happens if I fail the retest?

Make sure your mouth and vehicle are free of alcohol vapors and smoke. If the alcohol level was above the set-point the device may go into the Temporary Lockout mode. If this happens pull over and turn off the engine. Wait for the time to count down and when prompted to do so, provide a breath sample.

What if the device asks for a retest just before I am turn off my vehicle?

You are required to take the retest even if the engine is turned off. You do not have to turn the engine back on to take the retest.



CAUTION

For safety reasons park your vehicle away from traffic before taking a retest. The Interlock will give you several minutes to take the retest.

7 Service Requirements

7.1 Overview

The Interlock 7000 must be serviced periodically. When the Interlock is serviced the data in the Interlock is downloaded and the device is checked to ensure that it continues to work properly.

You must take your vehicle to the service location when service is required.

7.2 Early Service Reasons

The Interlock is programmed to require servicing earlier than scheduled if some conditions occur. Not all of these conditions are violations. This could be caused by:

- Vehicle maintenance
- Interlock Memory is full
- A failed Breath Alcohol Test
- A skipped retest
- A failed retest
- Tampering with the Interlock
- Attempts to circumvent the Interlock

7.3 Service Lockout

If the vehicle is not taken to a service location within the allotted time then the Interlock will not allow the vehicle to start. The Interlock will show "Service Lockout" on the Interlock's display.

If this happens call your local service location for assistance.

7.4 Service Specifics

An authorized service technician will:

- Download the information stored in the device.
- Log the odometer reading.
- Inspect the Interlock for evidence of tampering.
- Check the wiring and connections.
- Calibrate the Interlock.
- Work with you to schedule your next appointment.

8 Interlock Care

8.1 Interlock Precautions

When the Interlock is in your possession:

- Keep the Interlock dry.
- Make sure your windows are always closed and that your doors are locked when you are away from your vehicle.
- Do not spill anything onto or into the Interlock. If this happens do not turn the system on and contact your provider.
- Treat the Interlock as you would a cellular phone or other portable electronic device.
- You will be liable for the loss of the device or any damage the Service Provider or Manufacturer determines was caused by misuse, abuse, and/or neglect of the Interlock.

8.2 Handset Cleaning

If the Interlock gets dirty:

- Use a lightly dampened cloth to wipe off dirt.
- Never use a cleaner or soap on the Handset.
- You can ask the service technician to clean it for you at your next service appointment.

8.3 Disconnecting the Handset

If you are instructed by your Service Technician to disconnect the Handset:

- When the vehicle is off unplug the modular cable located at the bottom of the handset by pressing down on the lever and gently pulling the cord out of the handset.
- In extreme temperatures (hot or cold) the Interlock start-up procedure will take longer. To avoid this disconnect the Interlock and store it in a room-temperature location.
- Again, do not remove the Interlock unless the Service Provider has instructed you that this is allowed. Unauthorized disconnection of the Interlock will be recorded as a violation.



CAUTION

Do not disconnect the handset without authorization. In some states this is a violation. You may be instructed to remove the handset if you live in an area with extreme temperatures. Do not disconnect the handset while driving or while the Interlock is requesting a re-test. If you disconnect the handset during these conditions a violation will be recorded.

9 Vehicle Repairs

9.1 Battery Recharging or Replacement

If your battery dies or is disconnected the Interlock will detect the power loss. It is your responsibility to document what happened for the monitoring agency.

If the battery is recharged or jump-started record the date and time that the battery lost power and the date and time of reconnection.

If you need to replace the battery and choose to do it yourself then make a copy of the receipt to show the replacement. If you have a repair facility replace the battery bring a copy of the receipt for the charges (parts and labor) to your next appointment.

9.2 Vehicle Maintenance

It is your responsibility to keep the Interlock clean. Cover the handset with a clean sock or towel while the vehicle is in the repair shop. If your repair shop has any questions have them contact your service technician.

If your vehicle will be in the shop for an extended period of time the repair facility may advise you to seek authorization for a temporary disconnect of the Interlock. Ask the repair shop to contact the Service Technician for instructions.

9.3 Other Maintenance Information

For minor service observe the vehicle while it is being serviced. Ensure that alcohol-free solvents are used in your vehicle. If alcohol solvents are used air out your vehicle for at least 15 minutes before taking the initial test.

For major repairs ask the automotive technician to contact the Service Technician for instructions.

If vehicle repairs take more than a few days you may be required to make up time on your Interlock program.

Program Information

The device must be serviced every ___ days.

The vehicle will continue to operate for ___ day(s) after the above service period expires. If the vehicle is locked because you did not bring it in for service it will be your responsibility to tow the vehicle into the service center at your expense. There may be fees for missed appointments.

The device will display "Failed" and temporarily disable the vehicle when there is alcohol present in the breath sample.

If you fail ___ test(s) in a row the device will enter the lockout period. The first lockout period is ___ minutes long. After this time has expired you may try the test again.

If you fail another ___ test(s) in a row the device will enter the second lockout period for ___ minutes. After this time has expired you may try the test again.

The lockout period for a failed breath test is ___ minutes long.

If you perform the test incorrectly ___ times in a row the device will enter the first lockout period. If you continue to perform the test incorrectly it will enter the second lockout period. After the time has expired you may try the test again.

You have ___ minute(s) to start the vehicle after you pass the breath test.

The device will ask you for the first retest ___ to ___ minutes after you start the engine. After that the device will ask you for other retests every ___ to ___ minutes.

You have ___ minutes to pass the retest. Failure to pass a retest within this time will result in a violation and, if the engine is running, honk the horn and/or flash the parking lights as well. The vehicle will not shut down.

If your vehicle stalls or you turn it off you may restart it within ___ minutes without having to pass another breath test.

The device will enter the Violation Reset mode after ___ violation(s). If not serviced within ___ day(s) your vehicle will be disabled. You will see only "Service Lockout" displayed on the Interlock. Contact your Service Provider immediately if device lockout is displayed.

For appointment information please call _____.

Your Program Number is _____. Please have this number available whenever you call your Service Provider.

For emergencies only please call _____ to contact your Service Technician.

Please allow up to 45 minutes for the call to be returned.

Do not block unknown telephone numbers on your telephone line.

Make sure you know exactly what message is being displayed on the Interlock. If necessary write the message down and take it inside with you so it will be handy when the call is returned.

If your telephone will not accept calls from phones whose number is blocked you must temporarily disable this feature in order for your call to be returned.

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